



Program of Studies

2018-2019

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INTRODUCTION

This catalog provides students and parents a general description of courses available at Collierville High School. Not every elective is offered every year. Availability is determined by need as students register in the spring semester for the following year's courses. Please keep this book throughout your child's high school years for reference regarding graduation requirements, curriculum offerings, and various policies. This directory may be downloaded from the CHS web page and is subject to change.

AWARDING OF CREDITS

Credits will be awarded in .5 increments upon successful completion of a semester. Additionally, a student will receive one full credit in the course if he/she receives a passing yearly average in the course.

HONORS DIPLOMA

In order to best prepare students for college and an ever more competitive global job market, Collierville Schools supports, encourages, and motivates students to challenge themselves by taking the most rigorous course of study. Students eligible for the Honors Diploma must have earned twelve (12) Honors or Advanced Placement credits (any combination) in Grades 9-12 or a combination of such credits totaling twelve (12), with each Advanced Placement credit equal to 1.5 honors credits. A minimum of two (2) Honors or Advanced Placement courses is required during the senior year. A qualified graduate will receive a diploma that indicates the Honor status.

CHS ACADEMIC EXCELLENCE

Students who were enrolled at CHS the previous year are recognized for all A's or all A's and B's in a school year.

CHS HONOR ACADEMY

Students are recognized for taking a rigorous course load. Transfer students, as well as those who are four-year CHS students, are eligible. Students eligible for the Honor Graduate Program must be enrolled in courses to provide a minimum of: three (3) honors credits; or two (2) AP credits; or two (2) honors and one (1) AP credit each year during the four (4) years of high school. Application packets are available in guidance.

CLASS RANK

Students are ranked based on their weighted GPA. To become valedictorian or salutatorian, a student must be enrolled in the high school at least three (3) of the five (5) semesters preceding the final semester. The final semester shall not be used in determining class standing.

TENNESSEE GRADUATION REQUIREMENTS

Listed below are the Tennessee public high school **minimum** graduation requirements. Many private and out-of-state colleges and universities have entrance requirements that may exceed these state requirements. **It is the responsibility of the parents and students to contact the college or university that they plan to attend in order to verify the minimum requirements for admission.**

Total Credits Required: 22

Math: 4 credits - Including Algebra I, Algebra II, Geometry, and a fourth higher-level math course
Students must be enrolled in a mathematics course each school year.

Science: 3 credits - Including Biology, Chemistry or Physics, and a third lab course (a third lab course could include Agriscience and STEM)

English: 4 credits

Social Studies: 3 credits - Including World History and Geography, US History, Economics/
Government

Physical Education and Wellness: 1.5 credits

Personal Finance: 0.5 credit

Foreign Language: 2 credits (in the same language)

Fine Arts: 1 credit

Elective Focus: 3 credits - Math and Science, Career and Technical Education, Fine Arts, Liberal Arts, AP, Humanities

GRADE CLASSIFICATION FOR STUDENTS

Less than five (5) credits - 9th Grade

5 credits **and** passed English 9 - 10th Grade

11 credits **and** passed English 10 - 11th Grade

16 credits **and** passed English 11 - 12th Grade

COURSE ADD/DROP POLICY

Course selection should be made with careful consideration. Students and parents should be familiar with requirements for graduation and requirements for college entrance. The following rules and deadlines shall apply regarding a student-initiated request to drop or add a seventh elective course.

Required courses cannot be dropped.

A request to drop an elective course does not constitute approval to drop that course. Only an elective, seventh subject course can be considered for dropping or adding.

No request to add a course will be considered after the tenth day of class for that course.

If the student is enrolled in seven classes, an elective class may only be dropped within five days after the first nine-week period ends for that course.

An elective course may only be dropped for a blended learning period (formerly “study hall”).

Once the course selection process is complete, student- and/or parent-initiated requests to drop an AP/Honors/Dual course will only be considered if the student is found to be academically misplaced.

EARLY POSTSECONDARY OPPORTUNITIES (EPSO)

	AP Advanced Placement	CLEP College Level Exam Program	DE Dual Enrollment	LDC Local Dual Credit
Description	College-level high school courses offered in multiple subjects	Nationally recognized exams used to assess college-level knowledge, offered in multiple subjects	Postsecondary (PS) course taught at the high school Students are enrolled in the PS institution	High school course aligned to standards at local postsecondary (PS) institution Optional exam for credit at local PS institution
Structure	Course and exam	Exam	Course	Course and Exam
Provider	The College Board	The College Board	Individual TN PS institutions	Individual TN PS institutions
Student fees	\$95	Exam fees	Course tuition, fees, books	Exam fee
High school Credit and Graduation Requirements	AP courses meet requirements and/or elective	CLEP is not a course and does not meet high school graduation requirements	District sets policy on awarding high school credit and graduation requirements	LDC course fulfills the same requirements as aligned high school course
High School Recognition State Policies	Qualifies for GPA weighting	CLEP is not a course and does not meet high school graduation requirements	Qualifies for GPA weighting	Does not qualify for GPA weighting
Postsecondary Credit Determinant	Score on AP exam	Score on CLEP exam	Dual enrollment course completion with passing grade as assigned by postsecondary institution	Score on challenge exam at or above the established cut score
Postsecondary Credit Awarded	Determined by postsecondary institutions Awarded upon matriculation	Determined by postsecondary institutions Awarded upon matriculation	Credit awarded on PS transcript upon course completion Credit can be transferred to other PS institutions	Credit is accepted at the partnering PS institution Students should notify registrar upon matriculation

EPSO: ADVANCED PLACEMENT PROGRAM

The Advanced Placement Program consists of college-level courses and exams that give high school students the opportunity to receive college credit and enroll in a rigorous course of study. About 1,300 institutions, including some of the most selective colleges in the country, award credit to students with satisfactory scores on the AP exam. AP courses are introductory or second year college courses. They require much more time and work, but they offer greater opportunity to master a subject and to explore it in greater depth. Some AP classes require summer assignments and/or projects. Students who enroll in an Advanced Placement course at Collierville High School are required to take the AP examination. Failure to take the AP exam or voiding the exam score will result in a "0" for the exam grade. The College Board fee for the AP exam is approximately \$95.00 and will be determined by the latest information received from the College Board. This fee is non-refundable. **Once the course selection process is complete, student- and/or parent-initiated requests to drop an AP course will only be considered if the student is found to be academically misplaced.**

ADVANCED PLACEMENT INTERNATIONAL DIPLOMA

The Advanced Placement International Diploma (APID) is a globally recognized certificate for students with an international outlook. The APID challenges a student to display exceptional achievement on AP exams across several disciplines. Universities worldwide utilize the APID in admissions. The APID is not a substitute for a high school diploma, but it provides additional certification of outstanding academic excellence. To earn an APID, a student attending school within the United States must indicate on at least one AP exam answer sheet that the results should be sent to a university outside of the United States.

EPSO: ADVANCED PLACEMENT COURSEWORK

Visit your prospective college or university's website to view their specific credit policy for AP exams.

AP Class Offered at CHS	Score on AP Exam	Credit given by University of Memphis	Semester Hours Credit Given by University of Memphis
Art History	3, 4, or 5	Art 1030	3
Art Drawing / Studio	3, 4, or 5	Art lower division	3
Biology	3	Biology 1010/1011, 1020/1021	4, 4
	4 or 5	Biology 1010/1111, 1120/1121	4, 4
Chemistry	3	Chemistry 1010/1011	4
	4	Chemistry 1110/1111	4
	5	Chemistry 1110/1111, 1120/1121	4, 4
Computer Science Principles		new course in 16-17, contact U of Memphis for specifics. A score of 5 will award 3 hours in Computer Science at UT Knoxville.	
Economics - Macro	3, 4, or 5	Economics 2010	3
Economics - Micro	3, 4, or 5	Economics 2020	3
English Language and Composition	3	English 1010	3
	4 or 5	English 1010, English 1020	3, 3
English Literature and Composition	3	English 1010	3
	4 or 5	English 1010, English 1020	3, 3
Environmental Science	3, 4, or 5	ENVR lower division	4
European History	3	HIS 1120	3
	4, 5	HIST 1110/1120	3, 3
Government	3	POLS 1030	3
	4 or 5	POLS 1030 and POLS lower division	3, 3
US History	3	History 2020	3
	4 or 5	History 2010, History 2020	3, 3
World History	3	History 1120	3

AP Class Offered at CHS	Score on AP Exam	Credit given by University of Memphis	Semester Hours Credit Given by University of Memphis
	4 or 5	History 1110, History 1120	3, 3
Human Geography	3, 4, or 5	ESCI 1401	3
French	3	French 1010, 1020	3, 3
	4	French 1010, 1020, 2010	3, 3, 3
	5	French 1010, 1020, 2010, 2020	3, 3, 3, 3
German	3	German 1010, 1020	3, 3
	4	German 1010, 1020, 2010	3, 3, 3
	5	German 1010, 1020, 2010, 2020	3, 3, 3, 3
Latin	3	Latin 1010, 1020	3, 3
	4	Latin 1010, 1020, 2010	3, 3, 3
	5	Latin 1010, 1020, 2010, 2020	3, 3, 3, 3
Spanish	3	Spanish 1010, 1020	3, 3
	4	Spanish 1010, 1020, 2010	3, 3, 3
	5	Spanish 1010, 1020, 2010, 2020	3, 3, 3, 3
Calculus AB	3	Math 1830	3
	4 or 5	Math 1910	4
Calculus BC	3	Math 1910	4
	4 or 5	Math 1910, 1920	4, 4
Music Theory	3, 4, or 5	MUTC 1001	2
Physics I	3	Physics 1010, 1001	4, 4
	4 or 5	Physics 2010, 2011	4, 4
Physics C	3	Physics 2010, 2011, 2020, 2021	4, 4
	4 or 5	Physics 2110, 2111, 2120, 2121	4, 4
Psychology	3	Psychology Lower Division	3
	4 or 5	Psychology 1030	3
Statistics	3, 4, or 5	Math 1530	3

Visit your prospective college or university's website to view their specific credit policy for AP exams.

EPSO: DUAL ENROLLMENT AT UNIVERSITY OF MEMPHIS

Collierville High School juniors and seniors are eligible to participate in the dual enrollment program where college credit can be earned through the University of Memphis. Dual enrollment courses are taught by CHS teachers, and college credit is awarded upon successful completion of the course.

There are fees associated with dual enrollment courses and students are required to purchase the college textbooks for the course(s).

Dual Enrollment (DE) Eligibility Requirements:

- Student must be a resident of TN for at least one year prior to registration
- Student must be a US Citizen or a Permanent Resident
- Student must be admitted to the U of M by meeting an admissions index score of 100. This is obtained by multiplying the GPA by 30 and adding the ACT score.
($GPA \times 30 + ACT \text{ score} = 100$)
- Student must have a minimum composite ACT score of 19. Current juniors may use their PLAN score if they are only taking one course.
- For DE English, the student must also have an ACT English subscore of 18 or above
- For DE Advanced Algebra and Trig, the student must also have an ACT Math subscore of 19 or above

Dual Enrollment Grant:

Students enrolled in dual enrollment classes are required to apply for the Dual Enrollment Grant through the Tennessee Student Assistance Corporation (TSAC) by the deadline.

Additional grant information:

- **To remain eligible for the dual enrollment grant, the student must maintain a cumulative college GPA of 2.75 or higher. If a student's cumulative college GPA falls below 2.75, he/she will lose the dual enrollment grant for the duration of high school (i.e. for all future dual enrollment classes).**
- If a student is taking more than one dual enrollment class in a semester, the student must be HOPE Scholarship eligible. This means he/she must have a 21 ACT composite score OR a 3.0 GPA.
- Students may use the dual enrollment grant for 4 semesters without a deduction from their HOPE Scholarship money. If a student chooses to take more than 4 semesters of dual enrollment classes (more than 2 high school DE classes), the grant money will be awarded; however, the grant amount will be initially deducted from their HOPE Scholarship when they enter college (if they stay in-state and use HOPE).

Things to Know:

- Extra quality points are awarded in dual enrollment classes.
- Students will earn 6 hours of college credit for DE English, US History, and College Algebra. Students will earn 8 hours of college credit for DE Biology. Students will earn 4 hours credit for Calculus III and three hours for Differential Equations.

EPSO: DUAL ENROLLMENT THROUGH TENNESSEE COLLEGE OF APPLIED TECHNOLOGY (TCAT)

Collierville High School juniors and seniors are eligible to participate in the dual enrollment program where college credit can be earned through the Tennessee College of Applied Technology. Dual enrollment courses are taught by CHS teachers.

There are fees associated with dual enrollment courses and students are required to purchase the college textbooks for the course(s).

Dual Enrollment (DE) Eligibility Requirements:

- Student must be a resident of TN for at least one year prior to registration
- Student must be a US Citizen or a Permanent Resident
- Students must maintain a 2.75 in cumulative college GPA courses to remain eligible for the dual enrollment grant.

Dual Enrollment Grant:

Students enrolled in dual enrollment classes are required to apply for the Dual Enrollment Grant through the Tennessee Student Assistance Corporation (TSAC) by the deadline.

To participate in Dual Enrollment through TCAT:

- TCAT registration information and dual enrollment grant information will be provided by the CHS instructor at the beginning of the course.

EPSO: DUAL ENROLLMENT THROUGH TENNESSEE COLLEGE OF APPLIED TECHNOLOGY (TCAT)

CHS Course	School that will award college credit	Years a student can take the course	Notes	Potential Certificate/Credit
Administrative Office Technology	Tennessee College of Applied Technologies	2	See DE requirements on previous page	General Office Assistant
Advanced Manufacturing	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certificate from MSSC in Safety, Quality Practices, Manufacturing Production Processes, and Maintenance Awareness
Assistant Animal Lab Tech	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification
Automotive Technology	Tennessee College of Applied Technologies	2	Students must take Maintenance and Light Repair I and II first	ASE (Automotive Service Excellence)
Building Construction Technology	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification
Computer Based Graphic Design	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Layout Artist
Computer Information Technology	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Desktop Technician certificate and industry-standard credential
Drafting and CAD Technology	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification
Electronics Technology	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification

Hospitality and Tourism	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification
Pharmacy Technology	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification
Practical Nursing	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification - CNA is a one year program
Welding	Tennessee College of Applied Technologies	2	See DE requirements on previous page	Industry certification

EPSO: DUAL ENROLLMENT COURSES THROUGH UNIVERSITY OF MEMPHIS

CHS Course	School that will award college credit	Years a student can take the course	Notes	Potential Certificate/Credit upon completion
English	University of Memphis	1	See DE requirements on previous page	6 hours
Biology	University of Memphis	1	See DE requirements on previous page	8 hours
US History	University of Memphis	1	See DE requirements on previous page	6 hours
College Algebra	University of Memphis	1	See DE requirements on previous page	6 hours
Calculus III	University of Memphis	0.5	See DE requirements on previous page	4 hours
Differential Equations	University of Memphis	0.5	See DE requirements on previous page	3 hours
Culinary	University of Memphis	1	See DE requirements on previous page	Industry Certification and hours
TV Production	University of Memphis	1	See DE requirements on previous page	Hours

EPSO: CLEP-ALIGNED COURSEWORK

Collierville High School students are eligible to take classes that are aligned to CLEP (College Level Exam Program) exams. If a student passes a CLEP exam, he or she may be awarded college credit at participating colleges and universities. All CLEP testing takes place at designated testing centers outside of the regular school day. Students are responsible for registering and taking CLEP exams.

More information about CLEP testing is available here: <https://clep.collegeboard.org>

The following CHS courses have been aligned to CLEP exams in order increase the likelihood of a student passing the CLEP exam:

Aligned CHS Course	CLEP Exam
Accounting I	Financial Accounting
American Business Legal	Intro to Business Law
Biology II	Biology
Intro to Business and Marketing	Principles of Marketing
Business Management	Principles of Management
Marketing and Management I	Principles of Marketing
Standard Calculus	Calculus
English IV Standard	Analyzing and Interpreting Literature and English Literature
Lifespan Development	Human Growth and Development
Standard Pre-Calculus	College Algebra
Standard Psychology	Introduction to Psychology
Sociology	Introduction to Sociology
Spanish 3 Standard	Spanish
US Government	Government
US History	United States History
World History and Geography	World History

EPSO: LOCAL DUAL CREDIT COURSEWORK

Local dual credit is a high school course aligned to a local postsecondary institution’s course and exam. Students who pass the exam earn credits that are accepted and/or recognized by the local postsecondary institution. Courses are taught by licensed high school teachers or certified college instructors approved by the school system and the postsecondary institution.

Local dual credit courses:

- are only open to 11th and 12th grade students.
- credit is recognized by the postsecondary institution below once a student passes an exam upon entrance to the postsecondary institution
- When students enroll at TCAT, they will be given a Prior Learning Assessment to determine how much credit will be awarded.

For more information about local dual credit, visit <https://www.tn.gov/education/early-postsecondary/local-dual-credit.html>

Course at CHS	Course Earns Dual Credit at this Postsecondary Institution	Number of years student can take the course
Greenhouse Management	Middle Tennessee State University	1
Administrative Office Technology	Tennessee College of Applied Technologies	2
Assistant Animal Lab Technician	Tennessee College of Applied Technologies	2
Computer Information Technology	Tennessee College of Applied Technologies	2
Drafting and CAD Technology	Tennessee College of Applied Technologies	2
Electronics Technology	Tennessee College of Applied Technologies	2
Pharmacy Technology	Tennessee College of Applied Technologies	2
Practical Nursing	Tennessee College of Applied Technologies	2

EPSO: COLLEGE CREDIT THROUGH SAYLOR ACADEMY

During the blended learning time (formerly “study hall”), students have the option of working on Saylor Academy courses. Successful completion of the final exam for these courses could allow students to earn college credit at Southwest Tennessee Community College.

Southwest Tennessee Community College will award Prior Learning Assessment (PLA) credit for the Saylor Academy courses listed in the table below.

The American Council on Education (ACE) has assessed these courses and has found that they meet student-learning outcomes at the college level. To receive college credit for these Saylor Academy courses, ProctorU must proctor the final exam for the course. The Saylor Academy course must be posted on an official ACE CREDIT transcript. Transcripts from Saylor Academy will not serve as evidence of course completion for PLA purposes.

Saylor Academy courses do not count for high school credit.

More information about Saylor Academy can be found at <https://www.saylor.org>

Southwest Course	Course Title	Saylor Course	Course Title
BUSN 1305	Intro to Business	BUS 101	Intro to Business
ACCT 1010	Intro to Accounting I	BUS 103	Intro to Financial Accounting
BUSN 2380	Principles of Marketing	BUS 203	Principles of Marketing
BUSN 2370	Legal Environment of Business	BUS 205	Business Law and Ethics
BUSN 2330	Principles of Management	BUS 208	Principles of Management
ECON 2020	Microeconomics	ECON 101	Microeconomics
ECON 2010	Macroeconomics	ECON 102	Macroeconomics
CITC 1301	Intro to Programming and Logic	CS 101	Intro to Computer Science I
CITC 1311	C++	CS 102	Intro to Computer Science II
CITC 2335	Systems Analysis	CS 302	Software Engineering
BIOL 1010	Intro to Biology (non-majors)	ACPE 0023	Intro to Molecular and Cellular Biology

TENNESSEE GRADING SCALE

Grade	Percentage Range
A	93-100
B	85-92
C	75-84
D	70-74
F	0-69

Quality Points Added to the GPA	
Honors courses	0.5
Dual Enrollment Courses	1
Advanced Placement courses	1
CLEP-aligned	None
Local Dual Credit	None

EVALUATION AND ASSESSMENT WEBSITE

<http://www.tn.gov/education/section/assessment>

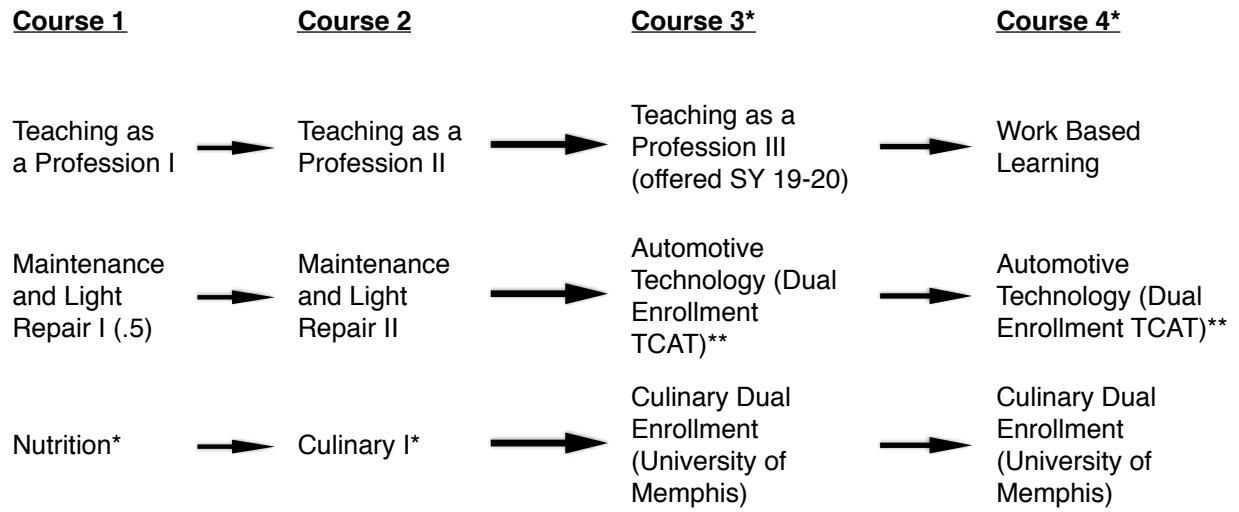
Information can be accessed on the Tennessee Department of Education’s website. Bookmark this page and refer to it regularly since it contains links to the various state assessments, strategies, graduation requirements, testing dates, and other helpful information.

NCAA ELIGIBILITY REQUIREMENTS

http://colliervillehs.colliervilleschools.org/apps/pages/index.jsp?uREC_ID=413544&type=d&pREC_ID=902548

Information can be accessed on the CHS website. Click on Athletics, and then click on NCAA Clearinghouse. If you have a student athlete, bookmark this page and refer to it regularly. Your child’s counselor can provide specific information regarding transcript requirements.

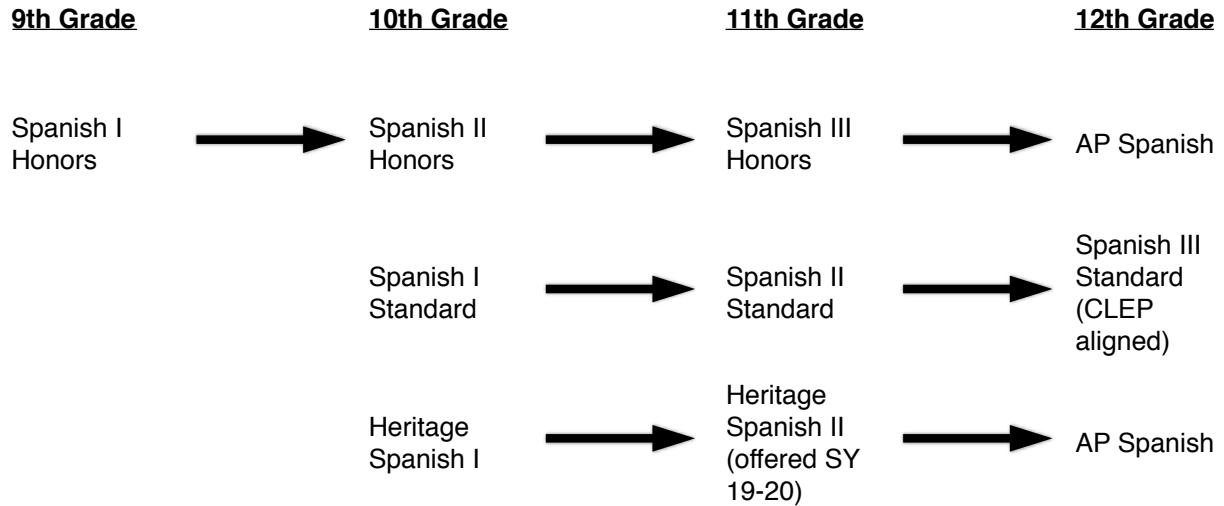
HUMAN SERVICES / AUTO / CULINARY COURSE SEQUENCES



*Nutrition and Culinary I are not required prerequisite courses for the Culinary Dual Enrollment program

SPANISH COURSE SEQUENCES

Recommended Paths



*Transfer students: Recommended path will be devised after consultation with a Spanish teacher and counselor.

**For 8th grade English teachers, the recommendation is a 90 yearly average or better and strong study skills for Spanish I honors as a freshman.

***Students seeking the standard track need to begin their course of study in the 10th grade.

Heritage Spanish 1 is for students who first language or home language is Spanish. Students should have a strong background in Spanish as this class will be conducted entirely in Spanish. To be accepted into this class, students will need to pass an oral interview with a Spanish teacher.

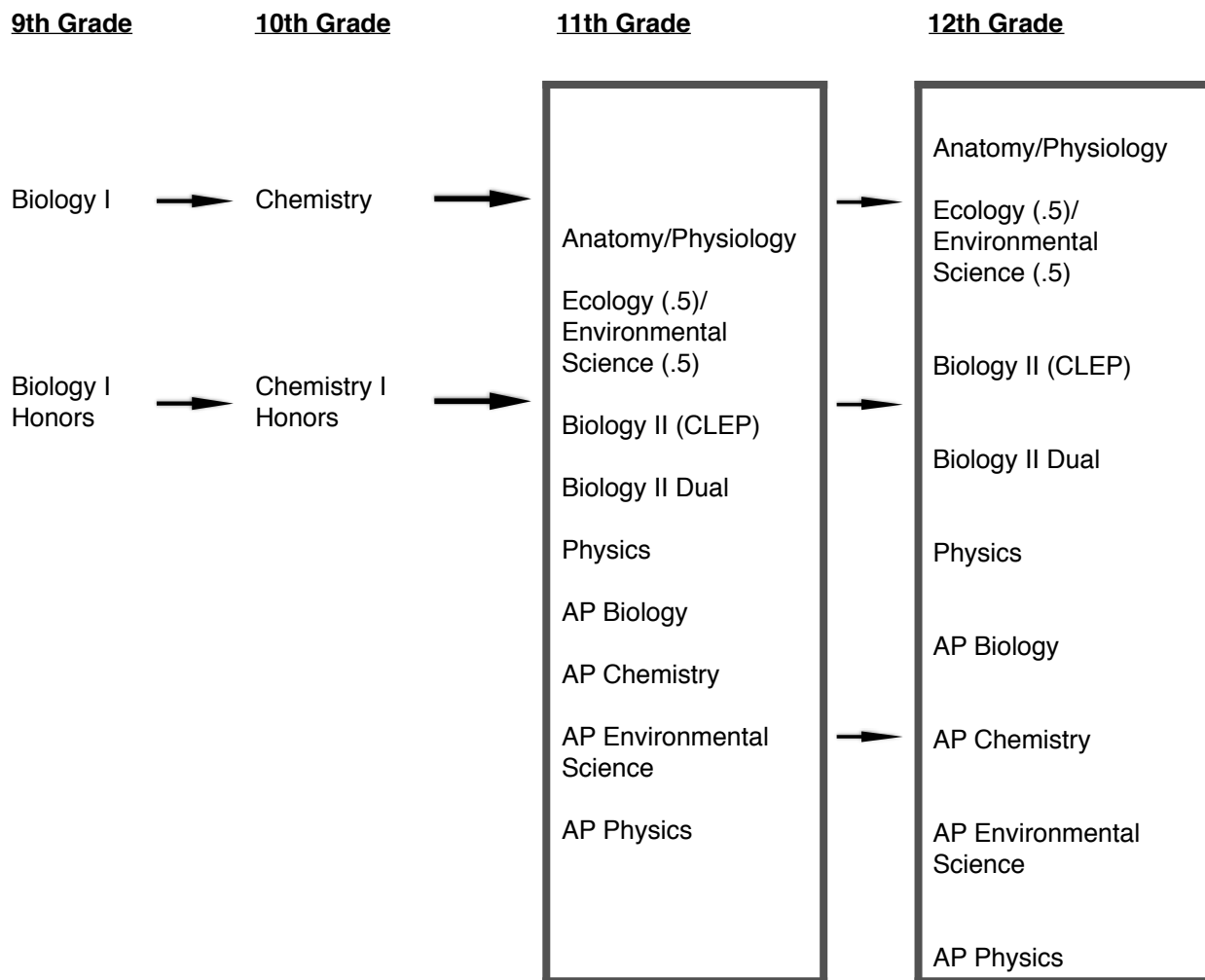
MATHEMATICS COURSE SEQUENCES

Recommended Paths

<u>9th Grade</u>		<u>10th Grade</u>		<u>11th Grade</u>		<u>12th Grade</u>
Algebra I	→	Geometry	→	Algebra II	→	Bridge Math Applied Mathematical Concepts PreCalculus (aligned to CLEP College Algebra) Dual College Algebra/ Trig AP Statistics
Algebra I Honors	→	Geometry Honors	→	Algebra II Honors	→	PreCalculus Honors PreCalculus (aligned to CLEP College Algebra) Dual College Algebra/ Trig AP Statistics
Geometry Honors	→	Algebra II Honors	→	PreCalculus Honors	→	AP Calculus AB AP Calculus BC AP Statistics
Geometry Honors	→	Algebra II Honors	→	Dual College Algebra/ Trig PreCalculus	→	AP Calculus AB AP Statistics
Algebra II Honors	→	Pre-Calculus Honors	→	AP Calculus AB AP Calculus BC	→	AP Statistics Calc III / Differential Equations (Dual Enrollment)
Geometry Honors	→	Algebra II	→	Pre-Cal (aligned to CLEP College Algebra)	→	Calculus (aligned to CLEP Calculus)

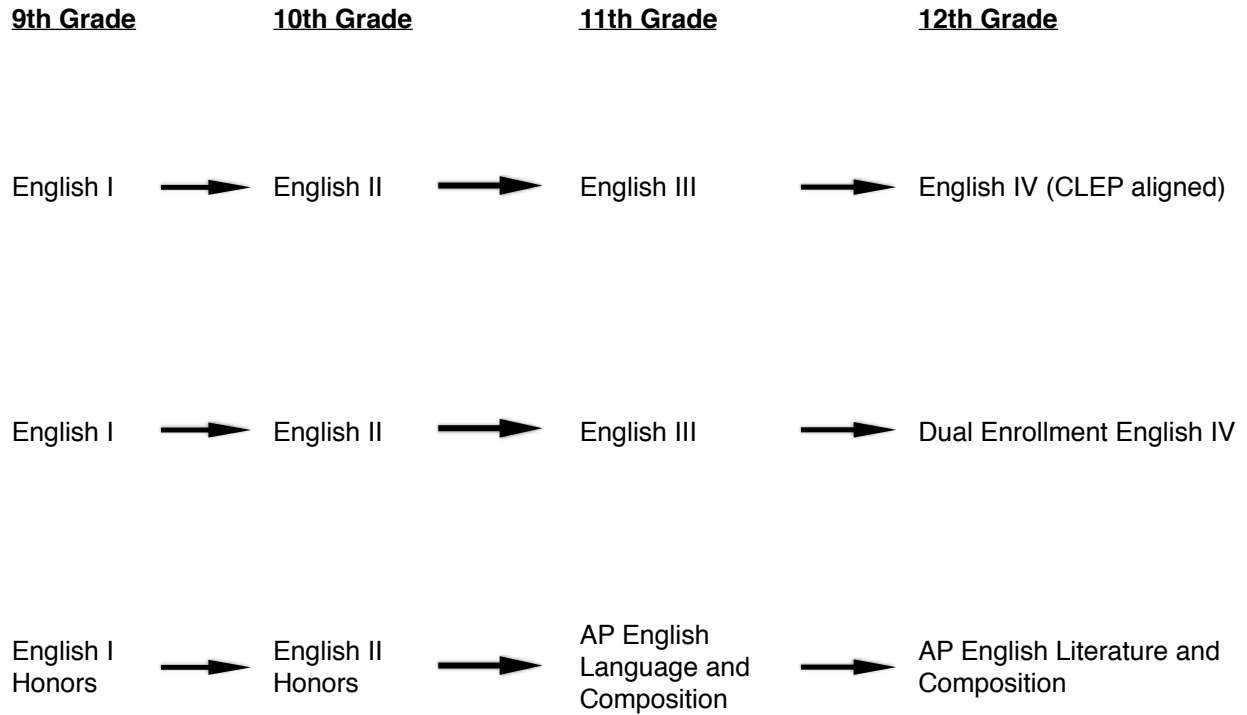
SCIENCE COURSE SEQUENCES

Recommended Paths



ENGLISH COURSE SEQUENCES

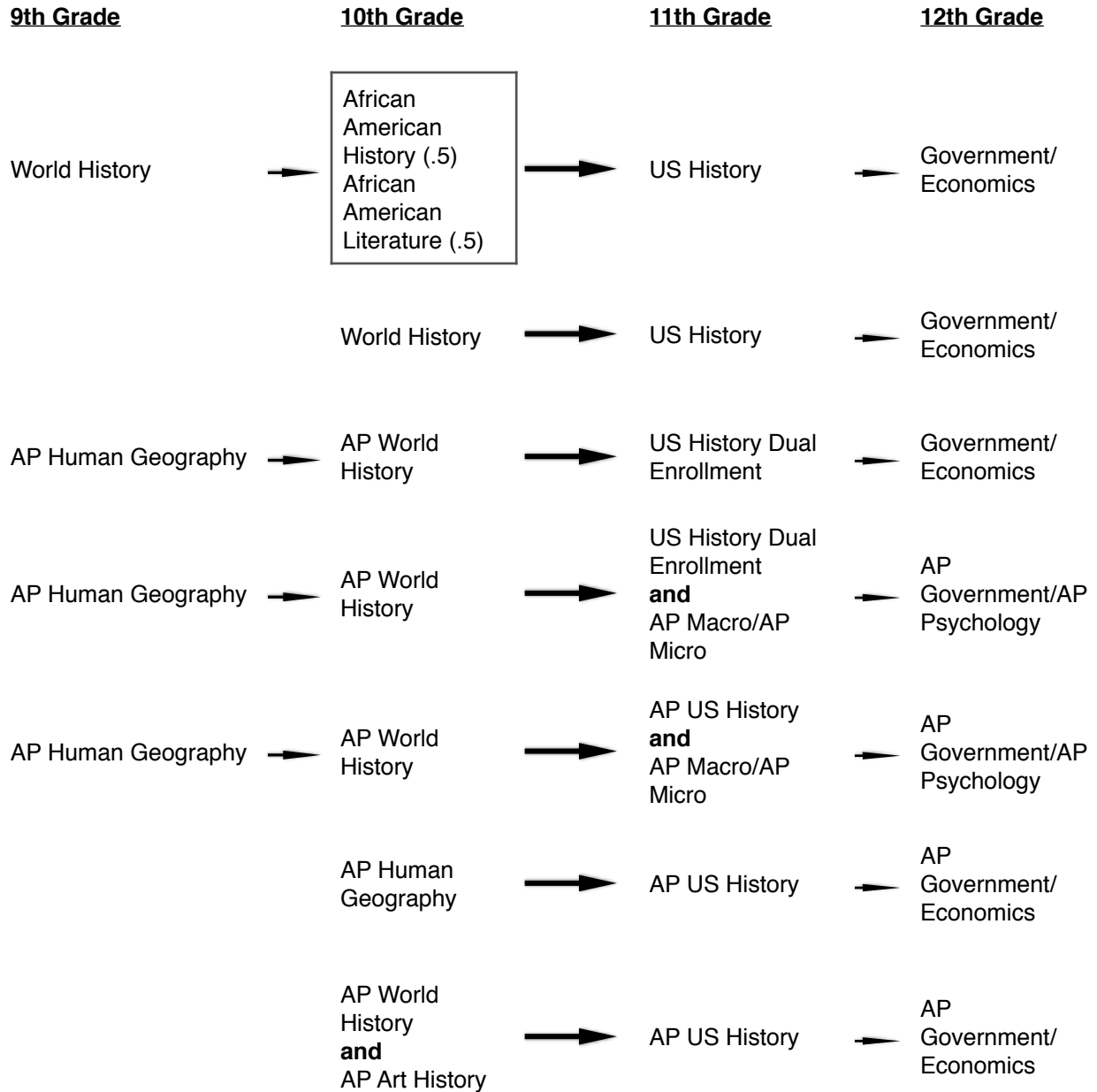
Recommended Paths



*Students who take AP English Language and Composition cannot take Dual Enrollment English IV, since the courses cover the same content.

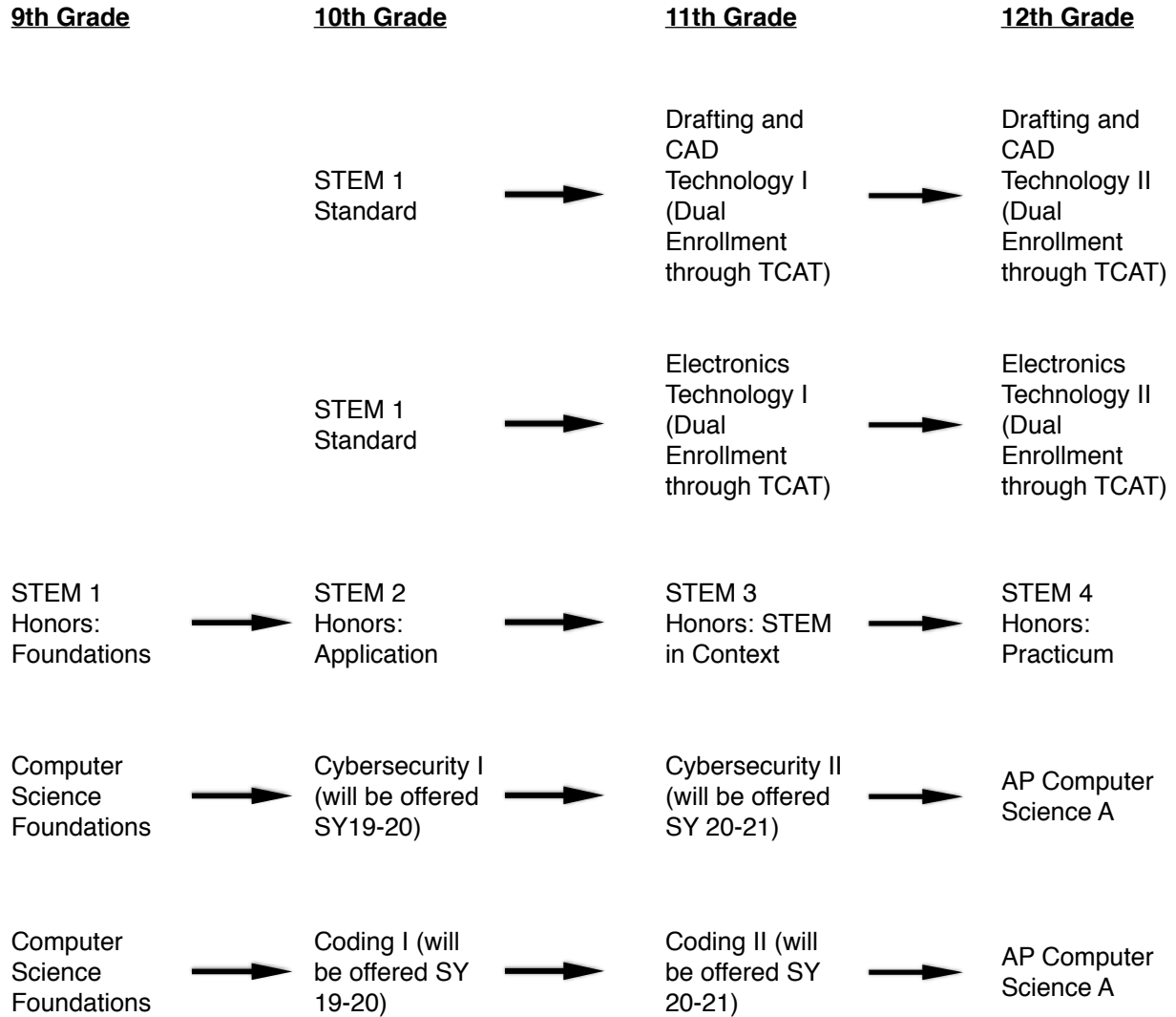
SOCIAL STUDIES COURSE SEQUENCES

Recommended Paths



STEM COURSE SEQUENCES

Recommended Paths



Note: AP Computer Science Principles can be taken at any grade level.

Sample Four-Year Plan: “Typical Tess”

Tess wants to be a nurse. Overall, she is an average student, and she isn’t sure if she will go to a 2 or 4 year college. She plays soccer, and she will earn her .5 credit Lifetime Sports credit through soccer.

9th Grade	10th grade
English I	English II
Biology I	Chemistry
Algebra I	Geometry
Lifetime Wellness	World History
Art I	Spanish I
Computer Applications / Speech & Communication	Career Exploration
Health Science	Medical Therapeutics

11th Grade	12th Grade
English III	English IV CLEP Aligned
Honors Anatomy and Physiology	Biology II
Algebra II	Pre-Calculus
US History Dual Enrollment	AP Government / Standard Economics
Spanish II	Spanish III
Personal Finance / ACT Prep	Psychology / Sociology
Practical Nursing Dual Enrollment	Practical Nursing Dual Enrollment

Potential College Credit from Dual Enrollment classes: 22+ hours

Potential College Credit from AP classes: 3 hours

Potential College Credit from CLEP exams: 18 hours

Total potential college credit before graduating high school: 38+ hours

Sample Four-Year Plan: “College Cameron”

Cameron knows that he wants to go to a four-year college. He wants to work hard in school, but he also plays sports (where he will earn his .5 Lifetime Sports credit). He isn't sure what he'll study in college, but he knows wants to earn as many college credits as he can while still in high school.

9th Grade	10th grade
English I Honors	English II Honors
Biology I Honors	Chemistry Honors
Algebra I	Geometry
AP Human Geography	AP World History
Lifetime Wellness	Career Exploration
Computer Applications / Speech & Communication	ACT Prep / African American Literature
Health Science	French I

11th Grade	12th Grade
English III	English IV Dual Enrollment
AP Environmental Science	Biology II (CLEP)
Algebra II	College Algebra Dual Enrollment
US History Dual Enrollment	AP Government / Standard Economics
French II	French III (CLEP)
Personal Finance / Advanced Computer Apps	Psychology / Sociology (CLEP)
Yearbook	Yearbook

Potential College Credit from Dual Enrollment classes: 18 hours

Potential College Credit from AP classes: 12 hours

Potential College Credit from CLEP exams: 12 hours

Total possible college credit before graduating high school: 42+ hours

Sample Four-Year Plan: “Humanities Henry”

Henry is interested in social studies, history, and language. He might want to be a teacher or professor. He will earn his .5 Lifetime Sports credit by playing Football.

9th Grade	10th grade
English I Honors	English II Honors
Biology I Honors	Chemistry Honors
Geometry Honors	Algebra II Honors
Lifetime Wellness	Career Exploration
Latin 1 Honors	Latin II Honors
Intro to Theatre	Teaching as a Profession I
AP Human Geography	Speech and Debate

11th Grade	12th Grade
AP English Language	AP English Literature
AP Biology	AP World History
Honors Pre-Cal	AP Calculus AB
Dual Enrollment United States History	Psychology / Sociology
AP Micro/AP Macro Economics	Personal Finance / AP US Government (CLEP)
Latin III Honors	AP Latin
Teaching as a Profession II	Work Based Learning

Potential College Credit from AP classes: 30+ hours

Potential College Credit from CLEP exams: 6 hours

Potential College Credit from Dual Enrollment classes: 6 hours

Total possible college credit before graduating high school: 42+ hours

Sample Four-Year Plan: “Science Sarah”

Sarah was a STEM scholar in middle school which placed her on an advanced Math track. Sarah is interested in Math and Science, and she plans to apply to competitive schools.

9th Grade	10th grade
English I Honors	English II Honors
Biology I Honors	AP Chemistry
Algebra II Honors	Pre-Calculus Honors
Lifetime Wellness	Career Exploration
German 1 Honors	German II Honors
STEM 1 Honors	STEM 2 Honors
Freshman Band	Varsity Band Honors

11th Grade	12th Grade
AP English Language	AP English Literature
AP Physics I	Calculus III / Differential Equations (Dual Enrollment)
AP Calculus BC	AP Computer Science
AP United States History	AP Psychology / AP US Government
AP Micro/AP Macro Economics	AP Human Geography
STEM 3 Honors	STEM 4 Honors Work-Based Learning
Varsity Band Honors	Varsity Band Honors
(Takes Personal Finance Online)	

Potential College Credit from Dual Enrollment classes: 6 hours

Potential College Credit from AP classes: 39 hours

Total possible college credit before graduating high school: 45+ hours`

BUSINESS

ACCOUNTING I: CLEP Aligned

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

EPSO: Aligned to Financial Accounting CLEP exam

ACCOUNTING I is an essential course for students who wish to pursue careers in business and finance. Whether students aspire to be future business owners or work in finance with other companies, accounting skills are fundamental to success and applicable in many different fields. In this course, proficient Accounting students develop skills to analyze business transactions, journalize, post, and prepare worksheets and financial statements, and apply financial analysis to business processes. There is a \$30 class fee which includes a workbook.

AMERICAN BUSINESS LEGAL SYSTEMS: CLEP Aligned

Credits 0.50 **Number of Semesters** 1 **Grade Level** 9-12

Prerequisite: None

EPSO: Aligned to Intro to Business Law CLEP exam

AMERICAN BUSINESS/LEGAL SYSTEMS provides students with an understanding of the legal framework in which American business functions. The students will evaluate the influence of the free enterprise system in a democratic society on daily decisions.

BUSINESS COMMUNICATIONS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: None

BUSINESS COMMUNICATIONS is a course that prepares students for oral and electronic business communications in the 21st century, including social media as well as developing skills in electronic publishing, design, layout, composition, and video conferencing. Students will review and practice successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations. A \$15 technology fee will apply.

BUSINESS MANAGEMENT: CLEP Aligned

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Aligned to Intro to Principles of Management CLEP exam

BUSINESS MANAGEMENT focuses on the development of the planning, organizing, leading, and controlling functions required for the production and delivery of goods and services. This applied knowledge course addresses the management role of utilizing the businesses' resources

English

ENGLISH I STANDARD

Credits 1.00

Number of Semesters 2

Grade Level 9

Prerequisite: None

ENGLISH I STANDARD includes the application and mastery of grammar skills in writing and speaking, vocabulary building, basic research and study skills, and appreciation and interpretation of literature. Writing instruction includes expository writing, rhetorical analysis, argumentation, and synthesis of two or more literary sources. Out-of-class reading and routine writing assignments over both fiction and nonfiction works are required each quarter.

ENGLISH I HONORS

Credits 1.00

Number of Semesters 2

Grade Level 9

Prerequisite: Recommendation of the 8th grade English teacher

ENGLISH I HONORS includes mastery and application of grammar skills in writing and speaking, vocabulary building, basic research skills, study skills, and appreciation and interpretation of literature. Writing instruction includes expository writing, rhetorical analysis, argumentation, and synthesis of multiple literary sources. Summer reading, additional reading at home, and computer use are required. Frequent timed writing and a research paper are required. A minimum of one hour of homework per night is required to meet the challenging work load.

ENGLISH II STANDARD

Credits 1.00

Number of Semesters 2

Grade Level 10

Prerequisite: English I

ENGLISH II STANDARD focuses on developing an appreciation and interpretation of world literature, as well as mastery of grammar skills through writing. Out of class reading and the development of composition skills are stressed. Routine writing assignments over both fiction and nonfiction works are required.

ENGLISH II HONORS

Credits 1.00

Number of Semesters 2

Grade Level 10

Prerequisite: Recommendation of the ninth grade Honors English teacher

ENGLISH II HONORS is designed for students who are motivated to expand their knowledge through study of major literary works and rhetorical analysis of nonfiction writing. In preparation for AP course work in the Junior and Senior years, this course requires summer reading, critical reading, mastery of grammar through writing, and intensive writing, both within and outside of class.

HUMAN SERVICES

TEACHING AS A PROFESSION I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

TEACHING AS A PROFESSION I (TAP I) is an intermediate course for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students will conduct observations of educators at work and create artifacts for a course portfolio, which will continue with them throughout the program of study. Upon completion of this course, proficient students will have a fundamental understanding of instructional strategies needed for becoming an educator.

TEACHING AS A PROFESSION II

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

TEACHING AS A PROFESSION II (TAP II) is an applied-knowledge course for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning. Students in this course will demonstrate their skills in laboratory settings while building a course portfolio of work, which will carry with them throughout the program of study. Upon completion of this course, proficient students will be prepared to take the capstone TAP III course and further their studies at the postsecondary level.

NUTRITION ACROSS THE LIFESPAN

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-10

NUTRITION ACROSS THE LIFESPAN is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. Upon completion of this course, proficient students will understand human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity.

CULINARY ARTS I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

CULINARY ARTS I equips students with the foundational knowledge and skills to pursue careers in the culinary field as a personal chef, caterer, executive chef, and food and beverage manager. Upon completion of this course, proficient students will have knowledge in the components of commercial kitchen safety and sanitation, history of the foodservice industry, careers, nutrition, recipe basics, proper kitchen tools and

STEM

COMPUTER SCIENCE FOUNDATIONS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: Algebra I

COMPUTER SCIENCE FOUNDATIONS is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. As a result, students will complete all core standards, as well as standards in two of four focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication.

STEM I: FOUNDATION- STANDARD

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Algebra I

STEM I: FOUNDATION is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics. This course covers basic skills required for STEM fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in both the engineering design and the scientific inquiry processes. Students conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanations to others. There is a \$50 lab and materials fee.

STEM I: FOUNDATION - HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-10

Prerequisite: Algebra I, Physical Science, Application and Teacher Recommendation

STEM I: FOUNDATION - HONORS is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics. This course covers basic skills required for STEM fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in both the engineering design and the scientific inquiry processes. Students conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate

solutions and scientific explanations to others. Participation in local, regional, state, or national competitions provide enrichment for the honors level. There is a \$50 lab and materials fee.

STEM II: APPLICATIONS - HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-11

Prerequisite: STEM I: Foundation - Honors, Application and Teacher Recommendation

STEM II: APPLICATIONS - HONORS is a project-based learning experience for students who wish to further explore the dynamic range of STEM fields introduced in STEM I. Building on the content and critical thinking frameworks of STEM I, this course asks students to apply the scientific inquiry and engineering design processes to projects selected by the instructor with the help of student input. Upon completion of this course, proficient students will have a thorough understanding of how scientists and engineers research problems and methodically apply STEM knowledge and skills; and they will be able to present and defend a scientific explanation and/or an engineering design solution to comprehensive STEM-related scenarios. Participation in local, regional, state, or national competitions provide enrichment for the honors level. There is a \$50 lab and materials fee.

STEM III: STEM in CONTEXT - HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: STEM II: Applications - Honors, Application and Teacher Recommendation

STEM III: STEM in CONTEXT is an applied course in the STEM career cluster which allows students to work in groups to solve a problem or answer a scientific question drawn from real-world scenarios within their schools or communities. This course builds on STEM I and II by applying scientific and engineering knowledge and skills to a team project. Proficient students will be able to effectively use skills such as project management, team communication, leadership, and decision making. They will also be able to effectively transfer the teamwork skills from the classroom to a work setting. Participation in local, regional, state, or national competitions provide enrichment for the honors level. There is a \$50 lab and materials fee.

STEM IV: STEM PRACTICUM- HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: STEM III: STEM in Context - Honors, Application and Teacher Recommendation

STEM IV: STEM PRACTICUM is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous STEM Education courses within a professional, working environment. In addition to developing an understanding of the profession and ethical issues encountered by STEM professionals in the workplace, students learn to refine their skills in problem solving, research, communication, data analysis, teamwork, and project management. Instruction may be delivered through school laboratory training or through work-based learning arrangements such as internships, cooperative

Prerequisite: Maintenance and Light Repair I and II

EPSO: Dual Enrollment through Tennessee College of Applied Technology

MAINTENANCE AND LIGHT REPAIR III prepares students for entry into Maintenance and Light Repair IV. Students study and service suspension and steering systems and brake systems. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician. The mission of this ASE (Automotive Service Excellence) program is to prepare students for entry-level employment as automotive repair technicians. Students will learn to troubleshoot and diagnose malfunctions and repair or replace defective parts to restore the vehicle to proper operating condition.

MAINTENANCE AND LIGHT REPAIR IV DUAL ENROLLMENT

Credits 2.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Maintenance and Light Repair I, II and III

EPSO: Dual Enrollment through Tennessee College of Applied Technology

MAINTENANCE AND LIGHT REPAIR IV prepares students for entry into the automotive workforce or into post secondary training. Students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician. The mission of this ASE (Automotive Service Excellence) program is to prepare students for entry-level employment as automotive repair technicians. Students will learn to troubleshoot and diagnose malfunctions and repair or replace defective parts to restore the vehicle to proper operating condition.

Agricultural Science

AGRISCIENCE

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: None

AGRISCIENCE is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serve in the 21st century. A lab fee of \$30 will apply.

LANDSCAPING AND TURF MANAGEMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Agriscience

LANDSCAPING AND TURF MANAGEMENT is an applied knowledge course designed to provide challenging academic standards and relevant technical knowledge and skills for further education and careers in landscape design, maintenance, and turf management. Content includes site analysis and planning, principles of design, and plant selection and care techniques. A lab fee of \$30 will apply.

GREENHOUSE MANAGEMENT - LOCAL DUAL CREDIT THROUGH MTSU

Credits	1.00	Number of Semesters	2	Grade Level	11-12
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Prerequisite: Agriscience and Landscaping and Turf Management

EPSO: Local Dual Credit through Middle Tennessee State University

GREENHOUSE MANAGEMENT is an applied knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. It provides students with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. Greenhouse Management is a dual credit course with statewide articulation. A lab fee of \$30 will apply.

VETERINARY SCIENCES - LOCAL DUAL CREDIT

Credits	1.00	Number of Semesters	2	Grade Level	10-12
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EPSO: Local Dual Credit through Tennessee College of Applied Technology

VETERINARY SCIENCES will prepare students for further postsecondary study and/or entry-level employment working with animals in a veterinary hospital, diagnostic laboratory setting, or biomedical research facility. Students will learn veterinary terminology, animal welfare regulations, and the basic anatomy and physiology of animals, in addition to the hands-on experiences of how to care for pets and other non-farm animals. Students will also learn how to safely clean and disinfect cages and work areas, as well as sterilize laboratory and surgical equipment. (also offered as Veterinary and Animal Science Dual Enrollment)

VETERINARY AND ANIMAL SCIENCE DUAL ENROLLMENT

Credits	1.00	Number of Semesters	2	Grade Level	11-12
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EPSO: Dual Enrollment through Tennessee College of Applied Technology

VETERINARY SCIENCE is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry. A lab fee of \$30 will apply. This program will prepare students for further postsecondary study and/or entry-level employment working with animals in a veterinary hospital, diagnostic laboratory setting, or biomedical research facility. Students will learn

veterinary terminology, animal welfare regulations, and the basic anatomy and physiology of animals, in addition to the hands-on experiences of how to care for pets and other non-farm animals. Students will also learn how to safely clean and disinfect cages and work areas, as well as sterilize laboratory and surgical equipment. (also offered as Veterinary Sciences Local Dual Credit)

Advanced Manufacturing and Welding

ADVANCED MANUFACTURING DUAL ENROLLMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Dual Enrollment through Tennessee College of Applied Technology

ADVANCED MANUFACTURING DUAL ENROLLMENT trains students in manufacturing processes with emphasis on accuracy and production, utilizing skills in pneumatics, hydraulics, robotics, computer controls, and preventative maintenance. Students in this program will earn nationally-recognized industry certifications from the Manufacturing Skills Standards Council (MSSC) in Safety, Quality Practices in Measurement, Manufacturing Production Processes, and Maintenance Awareness.

WELDING I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10

Prerequisite: Principles of Manufacturing required; Completion of Algebra, Geometry, and Physical Science recommended

WELDING I is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Proficient students will develop proficiency in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication, basic shielded metal arc welding (SMAW), mechanical and thermal properties of metals, and quality control. Upon completion of this course, proficient students will understand the requirements to pursue the American Welding Society (AWS) Entry Welder qualification and examination and will be prepared to undertake more advanced welding coursework.

WELDING DUAL ENROLLMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Dual Enrollment through Tennessee College of Applied Technology

WELDING DUAL ENROLLMENT will provide students individualized classroom instruction and practical shop experience to prepare them for employment in the field of Welding. Students will

be prepared to perform various duties in construction, production line assembly, and repair and maintenance. Instruction techniques will include welding, blueprint reading, and cutting and fabricating various metals. Students who complete this program will earn a certificate from a postsecondary institution that will help launch a career in the welding field.

Building Construction Technology

DUAL ENROLLMENT RESIDENTIAL AND COMMERCIAL CONSTRUCTION

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Dual Enrollment through Tennessee College of Applied Technology

DUAL ENROLLMENT RESIDENTIAL AND COMMERCIAL CONSTRUCTION Students in the Building Construction Technology program will receive hands-on training that will prepare them for employment in the building construction industry or further postsecondary study. Emphasis is placed on the use of modern tools, materials and prefabricated components in construction work.

Computer Information Technology

DUAL ENROLLMENT NETWORKING SYSTEMS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Dual Enrollment through Tennessee College of Applied Technology

NETWORKING SYSTEMS DUAL ENROLLMENT students will be prepared for further postsecondary study and/or employment as computer support specialists. Students will gain first-hand knowledge of installing, modifying, and making minor repairs to microcomputer hardware systems as well as investigating and resolving issues with the software, hardware, and operations of computers. Students who complete two years of this program will earn a certificate as a Desktop Technician from a postsecondary institution, as well as an industry-standard credential for establishing a career in the IT field. (ALSO OFFERED AS NETWORKING LOCAL DUAL CREDIT)

NETWORKING LOCAL DUAL CREDIT

Credits 1.00

Number of Semesters 2

Grade Level 11-12

Prerequisite: None

EPSO: Local Dual Credit through Tennessee College of Applied Technology

NETWORKING LOCAL DUAL CREDIT students will be prepared for further postsecondary study and/or employment as computer support specialists. Students will gain first-hand knowledge of installing, modifying, and making minor repairs to microcomputer hardware systems as well as investigating and resolving issues with the software, hardware, and operations of computers. Students who complete two years of this program could potentially earn a certificate as a Desktop Technician from a postsecondary institution, as well as an industry-standard credential for establishing a career in the IT field. (ALSO OFFERED AS NETWORKING SYSTEMS DUAL ENROLLMENT)

Drafting and CAD Technology

STEM (CAD/Drafting) DUAL ENROLLMENT

Credits 1.00

Number of Semesters 2

Grade Level 11-12

Prerequisite: None

EPSO: Dual Enrollment through Tennessee College of Applied Technology

STEM DUAL ENROLLMENT will provide students with specialized instruction and practical experience in preparation for further postsecondary study and/or employment as drafters. The program teaches students to assist engineers and architects in the design and drafting of electrical circuits, maps, machines, and structures according to specifications. Additionally, students will be taught the proper use of drafting tools and equipment, geometric construction techniques, and blueprint reading to fill in technical details. Students completing two years of this program will earn industry certifications from a postsecondary institution. (also offered as STEM II Local Dual Credit)

STEM II LOCAL DUAL CREDIT

Credits 1.00

Number of Semesters 2

Grade Level 11-12

Prerequisite: None

EPSO: Local Dual Credit through Tennessee College of Applied Technology

STEM II LOCAL DUAL CREDIT will provide students with specialized instruction and practical experience in preparation for further postsecondary study and/or employment as drafters. The program teaches students to assist engineers and architects in the design and drafting of electrical circuits, maps, machines, and structures according to specifications. Additionally, students will be taught the proper use of drafting tools and equipment, geometric construction techniques, and blueprint reading to fill in technical details. Students completing two years of this program could potentially earn industry certifications from a postsecondary institution. (also offered as STEM DUAL ENROLLMENT)

Electronics Technology

ELECTRONICS TECHNOLOGY DUAL ENROLLMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Dual Enrollment through Tennessee College of Applied Technology

DUAL ENROLLMENT TECHNOLOGY will prepare students for further postsecondary study and/or employment in the vast field of electronics. Through this program, students will become skilled at using electronics test equipment such as multimeters, signal generators, oscilloscopes, and basic hand tools as they learn how to lay out, build, test, troubleshoot, and modify electronic components. Application of the principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing, and physics, to automation and robotics is emphasized. Students completing two years of this program will earn industry certifications from a postsecondary institution. (also offered as STEM III Local Dual Credit)

STEM II LOCAL DUAL CREDIT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

EPSO: Local Dual Credit through Tennessee College of Applied Technology

STEM III LOCAL DUAL CREDIT will prepare students for further postsecondary study and/or employment in the vast field of electronics. Through this program, students will become skilled at using electronics test equipment such as multimeters, signal generators, oscilloscopes, and basic hand tools as they learn how to lay out, build, test, troubleshoot, and modify electronic components. Application of the principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing, and physics, to automation and robotics is emphasized. Students completing two years of this program will can be prepared to earn industry certifications from a postsecondary institution. (also offered as Dual Enrollment Technology)

Therapeutic Clinical Services

HEALTH SCIENCE EDUCATION

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-10

Prerequisite: None required. Biology I recommended.

Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of biotechnology research, therapeutics, health informatics, diagnostics, and support services. Upon completion of this course, a student proficient in Health Science Education will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. This course will serve as a strong foundation for all of the Health Science programs of study. BIOLOGY is a teacher recommended pre/co-requisite course. A uniform must be purchased and there is a lab fee.

CLINICAL INTERNSHIP

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Health Science Education and completion of one of the following courses: Medical Therapeutics, or Pharmacological Sciences. There is an application process required.

Clinical Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a pre-requisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the pre-requisite course of Cardiovascular Services, Exercise Physiology, Medical Therapeutics or Pharmacological Science. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS) Cardiopulmonary Resuscitation (CPR), and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, and confidentiality.

PHARMACOLOGICAL SCIENCES LOCAL DUAL CREDIT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Health Science Education

EPSO: Local Dual Credit through Tennessee College of Applied Technology

PHARMACOLOGICAL SCIENCES provide students with specialized instruction and practical experience in preparation for further postsecondary study and/or employment in a pharmacy, home health care, or long-term care facility. Students will learn basic prescription data entry, pharmacy math, and basic pharmacology, including prescription names and classifications, common side effects, and common prescription interactions. Students completing two years of this program can be prepared to earn industry certifications from a postsecondary institution. (also offered as Therapeutic Services Dual Enrollment)

THERAPEUTIC SERVICES DUAL ENROLLMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Health Science Education

EPSO: Dual Enrollment through Tennessee College of Applied Technology

THERAPEUTIC SERVICES provides students with specialized instruction and practical experience in preparation for further postsecondary study and/or employment in a pharmacy, home health care, or long-term care facility. Students will learn basic prescription data entry, pharmacy math, and basic pharmacology, including prescription names and classifications, common side effects, and common prescription interactions. Students completing two years of this program can earn industry certifications from a postsecondary institution. (also offered as Pharmacological Sciences Local Dual Credit)

NURSING EDUCATION LOCAL DUAL CREDIT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Health Science Education

EPSO: Local Dual Credit through Tennessee College of Applied Technology

NURSING SERVICES EDUCATION LOCAL DUAL CREDIT will provide students with specialized instruction and practical experience in preparation for further postsecondary study and/or employment in a health care facility such as hospice, assisted living, home health, long-term health facility, or hospital as a nursing aid. Students will learn how to provide basic patient care under the supervision and direction of the nursing staff. Students who complete this program can be prepared to earn a certificate from a postsecondary institution that will help launch a career in the health care field. (also offered as Nursing Services Dual Enrollment)

NURSING SERVICES DUAL ENROLLMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Health Science Education

EPSO: Dual Enrollment through Tennessee College of Applied Technology

NURSING SERVICES DUAL ENROLLMENT will provide students with specialized instruction and practical experience in preparation for further postsecondary study and/or employment in a health care facility such as hospice, assisted living, home health, long-term health facility, or hospital as a nursing aid. Students will learn how to provide basic patient care under the supervision and direction of the nursing staff. Students who complete this program will earn a certificate from a postsecondary institution that will help launch a career in the health care field. (also offered as Nursing Education Local Dual Credit). This course will prepare students to take the state CNA exam.

Fine Arts

Art

ART I

Credits 1.00

Number of Semesters 2

Grade Level 9-12

Prerequisite: None

ART I is designed to give the beginning art student a strong foundation in art fundamentals with an emphasis on two and three dimensional drawing, painting, art history, and design projects. Two dimensional projects may include pencil, color pencil, watercolor, tempera, oil pastels and ink media. Three dimensional projects may include wire and clay, with glazes and stains. Students will maintain a sketchbook throughout the year. A \$20 fee and supplies are needed for this class.

ART II

Credits 1.00

Number of Semesters 2

Grade Level 10-12

Prerequisite: Art I

ART II incorporates an in-depth development of drawing, painting, and three dimensional art skills. This course provides studies in direct observations, varying subject matter, and media techniques. Emphasis is placed on portraits, ceramics, and utilization of media. The student will exhibit competence in the techniques, tools, and media presented in class. Students will be required to compile a portfolio of their work. A fee and supplies are needed for this class.

ART II HONORS

Credits 1.00

Number of Semesters 2

Grade Level 10-12

Prerequisite: Art I or Portfolio Review

ART II HONORS incorporates an in-depth development of drawing, painting, and three dimensional art skills. This course provides studies in direct observations, varying subject matter, and media techniques. Emphasis is placed on portraits, ceramics, and utilization of media. The student will exhibit competence in the techniques, tools, and media presented in class. Students will be required to compile a portfolio of their work. There is a \$55 Art fee and an art box is required (or students may use their box from Art I and replenish certain supplies).

ART III HONORS

Credits 1.00

Number of Semesters 2

Grade Level 11-12

Prerequisite: Art I and II, Portfolio Review

ART III HONORS is an advanced level continuation of of drawing and painting methods, media and multi-media exploration, techniques, creative self expression and art awareness. Students are expected to create artworks that demonstrate knowledge of Elements & Principles in the research, production, problem solving to more complex art problems throughout the creative process. Students are required to complete weekly sketchbook assignments outside the classroom and attend Gallery visitations locally. There is a class fee of \$60.00 for purchase of oil sticks, linoleum supplies, specialty papers and paints.

ADVANCED PLACEMENT ART HISTORY

Credits 1.0 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: None required. Art I and successful completion of another AP course are recommended.

ADVANCED PLACEMENT ART HISTORY is a college level course on the development of art across the world from prehistory to the present. Students will study not only Western art but art from Asia, the pre-Columbian Americas, Africa and Australia. AP Art History emphasizes painting, drawing, sculpture, architecture, as well as other media primitive to these diverse regions. The course also requires students to read the art textbook, historical documents, both primary and secondary, and to write and speak about them in a scholarly fashion. This component of the course requires students to understand in depth the historical form, function, content, and context of the art object. Students taking this course will pay for and take the AP Art History Exam.

ADVANCED PLACEMENT STUDIO ART (DRAWING PORTFOLIO)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Art III, Portfolio Review

ADVANCED PLACEMENT STUDIO ART is a specific course of study offered through the College Board. This program expects highly motivated students to perform at the college level while still in high school. Emphasis is on advanced drawing, painting skills, and portfolio preparation. Gallery/Museum visitations will be required for each semester in addition to weekly sketchbook assignments to be completed outside of class. Students will complete an extensive student drawing portfolio and participate in the AP College Board testing program. There is a class fee of \$70. Class fee will go towards purchase of specialty papers, paints and drawing media and mat boards.

Computer Based Graphic Design

DUAL ENROLLMENT ARTS & DESIGN

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: None

Film and Television

INTRODUCTION TO FILM AND VIDEO (BEGINNING TV)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: Application and teacher recommendation required

INTRODUCTION TO FILM AND VIDEO is an introductory class focused on scripting, filming, and editing. Additionally, the course covers some basic concepts of communication. Students are expected to participate in some before and after school filming.

TELEVISION PRODUCTION WORKSHOP (ADVANCED TV)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Introduction to Film and Video and instructor approval

TELEVISION PRODUCTION WORKSHOP is an advanced course in film and video focused on broadcast television. Students in this class are expected to be able to comfortably work independently in all aspects of production. Work created in this class is normally displayed for the entire school. Additionally, there is considerable work required before and after school. (also offered as Dual Enrollment)

INTRODUCTION TO FILM HISTORY AND APPRECIATION

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: None

INTRODUCTION TO FILM HISTORY AND APPRECIATION is an introduction to the complex and compelling history of film through viewing significant works. The class starts with the foundation of film and works through the golden age of the 1950's.

FORENSICS / DEBATE

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: Previous experience in competitive speech including at the middle school level is recommended. Additionally instructor approval is required.

FORENSICS / DEBATE is an advanced course in communications structured around competitive speech and debate. Students in this course are not required to participate in speech and debate but are encouraged to do so.

HONORS FORENSICS / DEBATE

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Students must have participated in a full season of high school speech and debate competition and must acquire instructor approval.

HONORS FORENSICS/DEBATE is an advanced study of communication with an emphasis on writing and competition. Honors students are required to compete at additional tournaments. Students are required to travel to competitions.

Music

GENERAL MUSIC

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: None

GENERAL MUSIC is a non-performance class designed to give students an overall view of music throughout history, covering all musical time periods and styles. It is a textbook class with a large amount of CD listening for the purpose of analysis. No audition or fee requirement.

BEGINNING (FRESHMAN) WOMEN'S CHOIR

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9

Prerequisite: Entry into this chorus is by audition **or** recommendation of middle school choral teacher.

FRESHMAN WOMEN'S CHOIR is a performance group for 9th grade girls. Audition required. This ensemble will focus on musical skills, a variety of choral literature, and will perform in several concerts each year. A choir fee (\$100) and performance attire is required.

ADVANCED WOMEN'S CHOIR

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Audition required

ADVANCED WOMEN'S CHORUS is choir class for girls grades 10-12. Audition required. This ensemble will focus on musical skills, a variety of choral literature, and will perform in several concerts each year. A choir fee (\$100) and performance attire is required.

CHAMBER CHOIR (ACAPELLA SINGERS)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Audition required

ACAPELLA SINGERS is an advanced choral ensemble of 10-20 mixed voices. Audition required. This ensemble will focus on developing advanced vocal/musical skills in acapella singing. It will perform in concert and community events. A choir fee (\$100) and performance attire is required.

CHORUS MIXED (CONCERT CHOIR)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Co-requisites: Performance based class in (Choir, Band or Orchestra)

ADVANCED PLACEMENT MUSIC THEORY corresponds to one or two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony, are considered an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural skills is a primary objective. Performance is also part of the curriculum through the practice of sight singing. Students understand basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are also emphasized. There will be a music purchasing fee.

Foreign Language

French

FRENCH I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: None

FRENCH I is designed to develop basic speaking, listening, reading, and writing skills in French with an emphasis on vocabulary building. A study of basic French culture and history is included.

FRENCH I HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: Current English teacher recommendation and a yearly average of an A in eighth grade English.

FRENCH I HONORS is for students with an above average aptitude in language acquisition. The course develops the skills of listening, speaking, reading, and writing in French. The culture and geography of France are also important components of study. Students will purchase supplementary materials.

FRENCH II

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: French I

FRENCH II is a continuation of French I and emphasizes increased listening, speaking, reading, writing, and comprehension skills.

FRENCH II HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: French I Honors and teacher recommendation

Teacher recommended prerequisite: A 90 average in French I Honors or a 93 average in French I Standard

FRENCH II HONORS serves the needs of the students with an above average aptitude in language acquisition. This challenging course enhances listening, speaking, comprehension, and writing skills. Students will purchase supplementary materials and take the National French Exam.

FRENCH III HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: French II Honors and teacher recommendation, a yearly average of 90 in French II Honors or a yearly average of 93 in French II Standard.

FRENCH III HONORS emphasizes conversation and composition along with listening and reading comprehension. Students are required to read a collection of authentic French short stories. Students will purchase supplementary materials and take the National French Exam.

ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: French III Honors and teacher recommendation

ADVANCED PLACEMENT FRENCH is a challenging course for students who wish to develop proficiency in the French language. Students must have a good working knowledge of French grammar and considerable competency in listening, speaking, reading and writing. Students will read articles and books in French, write emails and persuasive essays and listen to French podcasts. Students will purchase supplementary materials and will take the National French Exam. Students will pay for and participate in the College Board AP Testing Program.

German

GERMAN I HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: Current English teacher recommendation

Corequisite: Honors English

GERMAN I is considered a pre-AP course for students with strong language skills. It will concentrate on the development of a good foundation in spoken and written German. Students will also study the culture and history of German-speaking countries. Students will purchase supplementary materials, not to exceed \$30.

GERMAN II HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: German I Honors and German teacher recommendation

GERMAN II HONORS is a continuation of the coursework in German 1 Honors and is also a pre-AP class. The emphasis of this course is oral and written communication skills. A survey of German culture and history is also included. Students will purchase supplementary material, not to exceed \$40.

GERMAN III HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Successful completion of German II Honors, (85% or higher), and German teacher recommendation

GERMAN III HONORS is a pre-AP course, which emphasizes conversation, composition, and cultural studies. Students read and discuss a variety of selections from German history, contemporary culture, and literature. Students will purchase supplementary materials, not to exceed \$40.

ADVANCED PLACEMENT GERMAN LANGUAGE

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Successful completion of German III Honors, (85%), and German teacher recommendation

ADVANCED PLACEMENT GERMAN LANGUAGE is designed for students who wish to develop proficiency in German. Students do comprehensive practice and review of listening, speaking, reading, and writing skills, as well as practicing the AP test skills. Students will also read a novel over the course of the year. Purchase of supplementary instructional materials may be required, not to exceed \$40. All students will pay for and participate in the College Board AP testing program.

Latin

LATIN I HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: An average of B or higher in Honors English/Language Arts or an A in Standard English/Language Arts and current English teacher recommendation

LATIN I HONORS focuses on learning basic Latin grammar, syntax, and vocabulary. This class will also cover topics in Roman history, mythology and culture. Students will be required to take the National Latin Exam.

LATIN II HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Latin I Honors and teacher recommendation

LATIN II HONORS continues to focus on the acquiring of basic Latin grammar, syntax, and vocabulary. This class will also cover topics in Roman history, mythology and culture. Students will be required to take the National Latin Exam. Students will take the National Latin Exam.

LATIN III HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Latin II Honors and teacher recommendation

LATIN III HONORS emphasizes Roman literature and history. Students read and translate selections from several Roman authors. Students will also learn about Roman culture and history. Students will take the National Latin Exam.

ADVANCED PLACEMENT LATIN

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Latin III Honors and teacher recommendation

ADVANCED PLACEMENT LATIN concentrates on the readings in Latin of Vergil's *Aeneid* and Caesar's *Gallic Wars*. Students read through sections of unadapted Latin prose and poetry, primary by Julius Caesar and Vergil. All students will pay for and participate in the College Board AP testing program and take the National Latin Exam.

Spanish

SPANISH I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: None

SPANISH I concentrates on grammar, vocabulary, and pronunciation with emphasis on written and oral proficiency in Spanish. This course is designed to develop basic conversational skills in Spanish. A study of the cultures of Spanish speaking countries is included.

SPANISH I HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: 9th graders wishing to take this course must receive a teacher recommendation from their 8th grade Language Arts teacher, as well as a minimum average of 90 in language arts

SPANISH I HONORS emphasizes essential vocabulary and grammar taught in a context which promotes skills in listening, speaking, reading, and writing. This course is designed to prepare students for upper-level honors and AP courses. Students will purchase supplementary materials (approx. \$10.00).

Mathematics

ALGEBRA I

Credits 1.00

Number of Semesters 2

Grade Level 9

Prerequisite: None

ALGEBRA I is the study of verbal, symbolic, graphic, and tabular representations. Topics include the language of algebra, simplifying expressions, solving equations, solving and graphing inequalities, solving systems of equations and inequalities, graphing linear and nonlinear functions, polynomials, and factoring. Concept building through connections, reasoning, and communication is emphasized. A graphing calculator, (TI-84 Plus), is recommended.

ALGEBRA I HONORS

Credits 1.00

Number of Semesters 2

Grade Level 9

Prerequisite: Teacher recommendation and at least a B in 8th grade Honors Math

ALGEBRA I HONORS is designed for students with an excellent, enriched, or accelerated 8th grade math background who want a more challenging approach to Algebra I. More emphasis will be placed on understanding and using the different sets of real numbers; on developing the concept of functions; on establishing connections between graphs, equations, and numerical patterns; and on solving a greater variety of applications. A graphing calculator (TI-84 PLUS) is recommended.

GEOMETRY

Credits 1.00

Number of Semesters 2

Grade Level 10-11

Prerequisite: Algebra I

GEOMETRY is designed to develop an understanding of the basic structure of geometry, plane and solid, and of the critical and creative reasoning skills necessary for proficiency in problem solving. The content includes the basics of formal geometric proofs, the use of algebraic methods in solving problems in geometry, the properties of geometric figures and special applications, the area and volume formulas, and transformations. A scientific calculator is recommended.

GEOMETRY HONORS

Credits 1.00

Number of Semesters 2

Grade Level 9-10

Prerequisite: Teacher recommendation and must have earned an A in Algebra I or at least a B in Algebra I Honors

GEOMETRY HONORS is a more challenging approach to geometry. More emphasis is placed on visualizing and performing transformations of figures, investigating solid figures, trigonometric relationships, connecting algebraic and geometric concepts, justifying conclusions and making

logical arguments. Students enrolling in honors geometry in the ninth grade should plan to complete AP Calculus. A graphing calculator is recommended.

ALGEBRA II

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Algebra I and Geometry

ALGEBRA II is designed as a continuation of Algebra I. Topics from Algebra I are treated with more detail and depth. In addition to these topics, the content includes a study of number systems, relations and functions, exponents and logarithms, quadratic relations, systems of equations and inequalities, probability and statistics, and rational expressions. A TI-84 Plus graphing calculator is recommended.

ALGEBRA II HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-11

Prerequisite: Teacher recommendation from Geometry teacher. Must have earned a yearly average of an 93% or higher in Standard Geometry & Standard Algebra I, Or earned an 85% or higher yearly average for Geometry Honors & Algebra I Honors.

ALGEBRA II HONORS is designed for students who want a more challenging approach to Algebra II. More emphasis is placed on using function notation, identifying domain and range, investigating logarithmic and trigonometric functions, connecting algebraic and geometric concepts, justifying conclusions in making logical arguments, and solving a greater variety of problems. A TI-84 Plus CE graphing calculator is recommended.

COLLEGE ALGEBRA (DUAL ENROLLMENT)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Algebra II and Geometry, ACT composite score of 19 or above; cumulative GPA 2.75 or higher; admission to the University of Memphis ($GPA \times 30 + ACT = \text{at least } 100$); TN residency for at least 1 yr. prior to registration.

ADVANCED ALGEBRA & TRIGONOMETRY/COLLEGE ALGEBRA will consist of a semester of College Algebra and a semester of Trigonometry. The semester of College Algebra includes the analysis of functions; partial fractions; synthetic division; theory of equations; inequalities; and applications. The semester of Trigonometry includes the study of circular functions; inverse circular functions, graphs of circular and inverse functions, identities, equations, angles, trigonometric functions, solution of triangles, elementary application of vectors; trigonometric form of complex numbers. Students are responsible for semester tuition and textbooks. A scientific calculator is recommended for the semester of trigonometry. (MATH 1710 and MATH 1720)

PRE-CALCULUS: CLEP Aligned

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Algebra I, Geometry, and Algebra II. Teacher recommendation from Algebra II teacher and must have earned a B in Algebra II or at least a C in Algebra II Honors

EPSO: Aligned to College Algebra CLEP exam

PRE-CALCULUS STANDARD focuses on pulling together previous mathematics courses, with an emphasis on analyzing functions (linear, quadratic, polynomial, root, rational, exponential, logarithmic); synthetic division; theory of equations; inequalities; matrices; sequences and series; conic sections; and some of the practical applications for these concepts. Trigonometry includes the study of circular functions; inverse circular functions, graphs of circular and inverse functions, identities, equations, angles, trigonometric functions, solution of triangles. A TI-84 Graphing calculator is recommended.

PRE-CALCULUS HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: Minimum of B average in Algebra II Honors and teacher recommendation

PRE-CALCULUS HONORS is designed for college-bound students who plan to pursue careers in mathematics, science, or engineering. This course both encompasses and extends topics and concepts of Algebra II. It includes functions, complex numbers, vectors, matrices, and systems of equations. Special emphasis is given to trigonometric functions, their real-world applications, and their graphs. There is an introduction to calculus at the end of the year. Scientific calculators only are allowed.

CALCULUS: CLEP Aligned

Credits 1.0 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Pre-Calculus Honors or Standard

EPSO: Aligned to Calculus CLEP exam

CALCULUS is a survey in differential calculus. The content of this course includes analysis of functions, limits, the derivative and applications of the derivative. A graphing calculator is recommended.

ADVANCED PLACEMENT STATISTICS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Algebra II, Pre-Calculus Honors/Standard, and teacher recommendation

ADVANCED PLACEMENT STATISTICS is a college level mathematics course. The topics for AP Statistics are divided into four major themes: 1) exploratory analysis 2) planning and conducting

a study, 3) probability, and 4) statistical inference. A graphing calculator is recommended. Students will pay for and participate in the College Board AP testing program.

ADVANCED PLACEMENT CALCULUS AB

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Pre-Calculus Honors/Standard and teacher recommendation

ADVANCED PLACEMENT CALCULUS AB is divided into three major themes: 1) functions, graphs, and limits 2) derivatives, and 3) integrals. A graphing calculator is required for some problems on the AP test. Students will pay for and participate in the College Board AP testing program.

ADVANCED PLACEMENT CALCULUS BC

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Pre-Calculus Honors and and teacher recommendation

ADVANCED PLACEMENT CALCULUS AB is divided into three major themes: 1) functions, graphs, and limits 2) derivatives, and 3) integrals. A graphing calculator is required for some problems on the AP test. Students will pay for and participate in the College Board AP testing program.

CALCULUS III (DUAL ENROLLMENT)

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Pre-Calculus Honors and teacher recommendation

CALCULUS III (DUAL ENROLLMENT) is a continuation from Calculus BC. Topics to be explored are vectors and their functions, partial derivatives, multiple integration, and the application of these concepts in the field of vector calculus. This is a dual enrollment class, so college credit will be earned. There may be fees associated with earning college credit.

BRIDGE MATH

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Algebra II, but scored below a 19 on the math component of the ACT.

BRIDGE MATH is for students who have not earned a 19 on the mathematics component of the ACT by the beginning of the senior year. This course is a review of the principles of Algebra I, Geometry, and Algebra II. It is designed to improve the ability of students achieve a minimum ACT score of 21. The course is designed to help connect new math skills to skills previously studied. It is designed to prepare students for college level mathematics courses. A graphing calculator is recommended. The Bridge Math class does not qualify as an NCAA core course and therefore cannot be used for NCAA initial eligibility certification.

APPLIED MATHEMATICAL CONCEPTS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: Algebra II, Score of 19 or above on the math component of the ACT

APPLIED MATHEMATICAL CONCEPTS is designed to prepare students for both college and the workplace. It is recommended for students who will not major in science, technology, engineering, or math course of study in college. However, this course will provide a foundation for students entering a business application Calculus course or other general education mathematics course. A graphing calculator is recommended.

ACT PREP

Credits	0.50	Number of Semesters	1	Grade Level	10-12
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Prerequisite: None

ACT PREP is designed as an intense preparation for taking the ACT. Instruction will include a pre-test to determine strengths and weaknesses, individualized online tutorials, test taking skills, and practice tests. Since this is a semester course only offered at selected times during the day and is not paired with any other semester course, students registering for this course must select an alternate course or a study hall in the event scheduling conflicts occur. A graphing calculator is recommended.

Science

BIOLOGY I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-10

Prerequisite: None

BIOLOGY I consists of the classroom study of cellular processes, inheritance and genetics, ecology, energy, and evolution. Laboratory exercises are designed to build upon concepts studied in the classroom while emphasizing problem-solving skills and application methods. There is a one-time lab fee of \$5. This is the recommended course for ninth grade students.

BIOLOGY I HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-10

Prerequisite: Physical Science and teacher recommendation

BIOLOGY I HONORS is designed to utilize and magnify cognitive abilities by laboratory experiences that emphasize problem solving, information gathering, and decision making. The course consists of an in-depth study of biological concepts, including cellular structure and function, ecology and the biosphere, energy usage within cells, genetics and heredity, evolution, and the diversity of life. Students will be required to complete assigned summer work. There is a one-time lab fee of \$10.

ADVANCED PLACEMENT BIOLOGY

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Biology I, Chemistry Honors, and teacher recommendation

ADVANCED PLACEMENT BIOLOGY examines living things from a molecular, cellular, and complete organism perspective. The interactions between structure and function are stressed along with the interrelationships and interdependence of all organisms. Students are required to do a large amount of outside reading, complete lab reports, research topics, and work independently in a lab setting. Students will purchase an AP Biology prep book and pay for and take the College Board AP Biology Exam. There is a one time lab fee of \$10.

BIOLOGY II: CLEP Aligned

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Biology I and Chemistry

EPSO: Aligned to Biology CLEP exam

BIOLOGY II is designed to introduce students to major specialty areas of biology. The students explore topics such as comparative anatomy and zoology, embryology, genetics, immunology, microbiology, and botany. Students will address topics through investigation and observation to

ADVANCED PLACEMENT CHEMISTRY

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Algebra II, Chemistry Honors and teacher recommendation

ADVANCED PLACEMENT CHEMISTRY is a college level class which follows the College Board curriculum and focuses on advanced topics in stoichiometry, chemical equilibrium, thermochemistry, oxidation-reduction reactions, and organic chemistry. Students should expect to spend one hour on homework each night. Students are required to complete summer work and to pay for and participate in the College Board AP testing program. There is a one-time lab fee of \$10.

PHYSICS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Chemistry, Geometry and completed or currently enrolled in Algebra II

PHYSICS stresses the study of energy and the way it interacts with matter. Topics include mechanical energy, heat, light, sound, magnetism, electricity, wave theory, atomic theory, and nuclear physics. Investigations through laboratory and classroom demonstrations are included in this course. Students cannot receive a credit in both Physics and AP Physics.

ADVANCED PLACEMENT PHYSICS I

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Chemistry Honors, Algebra II, and math teacher recommendation

ADVANCED PLACEMENT PHYSICS I: ALGEBRA-BASED includes the study of classical mechanics. Topics include kinetics, dynamics, circular motion, simple harmonic motion, impulse, linear momentum, work, energy, rotational motion, mechanical waves, electric force, and DC circuits. Students should expect to spend an hour on homework each night. Students cannot receive science credit for graduation in both Physics and AP Physics. Students will pay for and participate in the College Board AP testing program. There is a lab fee.

ADVANCED PLACEMENT PHYSICS C: ELECTRICITY AND MAGNETISM

Credits 1.00 **Number of Semesters** 2 **Grade Level** 12

Prerequisite: AP Physics I and teacher recommendation

Teacher Recommended Co-requisite: AP Calculus BC

ADVANCED PLACEMENT PHYSICS C: Electricity and Magnetism is calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits, magnetic fields; and electromagnetism. introductory differential and integral calculus is used throughout the course. Students will pay for and participate in the College Board AP testing program. There is a lab fee.

ANATOMY AND PHYSIOLOGY HONORS

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11-12

Prerequisite: Biology and Chemistry and science teacher recommendation

ANATOMY AND PHYSIOLOGY is designed to introduce high school students to various aspects of anatomy and physiology. The students will be provided with experiences of anatomy and physiology concepts in detailed explanations using case studies, labs, and lectures. Students are expected to work independently outside of class, including case studies and textbook reading. Students will purchase an anatomy and physiology coloring book and pay a \$10 lab fee. This course is recommended for anyone pursuing the medical field.

ECOLOGY

Credits 0.50 **Number of Semesters** 1 **Grade Level** 11-12

Prerequisite: Biology I

ECOLOGY is a laboratory science course that examines the fundamental principles that determine the variety and distribution of plant and animal life on earth and the interrelationships within ecosystems.

ENVIRONMENTAL SCIENCE

Credits 0.50 **Number of Semesters** 1 **Grade Level** 11-12

Prerequisite: Biology I

ENVIRONMENTAL SCIENCE is a laboratory science course that focuses on the effects of human life on the Earth. Exploring the practices that deplete or degrade our resources, and lead to loss of biodiversity.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10–12

Prerequisite: Biology, Algebra I and teacher recommendation

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE is interdisciplinary in nature with a strong basis in ecology, but applies other sciences, including social sciences, in attempting to understand the many and complex relationships of the natural world. The goal of this full year course is to identify and analyze environmental problems, consider consequences, and explore alternatives as solutions or preventative measures. Students will pay for and participate in the College Board AP test for this course.

Social Studies

WORLD HISTORY AND GEOGRAPHY - CLEP Aligned

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: None

EPSO: Aligned to World History CLEP exam

WORLD HISTORY AND GEOGRAPHY is a year long course consisting of a broad survey of the history of the world. This course offers both a multicultural and historical study of the world's major regions from 1750 through modern times.

ADVANCED PLACEMENT WORLD HISTORY

Credits 1.00 **Number of Semesters** 2 **Grade Level** 10-12

Prerequisite: teacher recommendation

Corequisite: Enrollment in Honors English is recommended but not required

AP WORLD HISTORY allows students to develop a greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in the international framework and their causes and consequences, as well as comparisons among major societies. Students will pay for and participate in the College Board AP testing program.

UNITED STATES HISTORY AND GEOGRAPHY - CLEP Aligned

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11

Prerequisite: None

EPSO: Aligned to United States History CLEP exam

UNITED STATES HISTORY AND GEOGRAPHY provides students with a study of Reconstruction to the present. Students will utilize different methods used by historians to interpret the past, including point of view and historical context. This required course provides students with a general knowledge and appreciation for the political, social, and economic developments of the United States.

ADVANCED PLACEMENT UNITED STATES HISTORY

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11

Prerequisite: teacher recommendation

Corequisite: Enrollment in AP English 11 is recommended but not required

AP UNITED STATES HISTORY provides the student with the analytical skills and factual knowledge necessary to deal critically with American history. This course emphasizes the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Students will pay for and participate in the College Board AP testing program.

UNITED STATES HISTORY - DUAL ENROLLMENT

Credits 1.00 **Number of Semesters** 2 **Grade Level** 11

Prerequisite: ACT composite score of 19 or above; ACT English sub score of 19 or above; cumulative GPA 2.75 or higher; admission to the University of Memphis (GPA x 30 + ACT = at least 100); TN residency for at least 1 yr. prior to registration.

UNITED STATES HISTORY - DUAL ENROLLMENT provides students with a study of the history of the United States from the age of discovery to the present. Students utilize primary and secondary sources to interpret the past through reading, writing, and class discussions. Students understand and appreciate the complexity of the political, economic, and social development of the United States. Students receive one CHS credit and six University of Memphis credits (HIST 2010 and HIST 2010) for passing grades. There may be a fee associated with earning college credit. Students purchase their textbooks.

AFRICAN AMERICAN HISTORY

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Prerequisite: None

AFRICAN AMERICAN HISTORY examines the life and contributions of African Americans from the early 1600s through the contemporary United States. Students will explore the influence of geography on slavery and the growth of slavery in the U.S. Students will consider urban and rural African American communities and institutions in the North and South leading up to and during the Civil War. Students will investigate the rise of Jim Crow and the subsequent effects of the laws and trace the impact of African American migration through the early 20th century. Students will explore the impact of the Harlem Renaissance as well as the contributions of African Americans during the Great Depression and World War II. Students will examine the successes and failures of the Civil Rights Movement and consider the contemporary issues confronting African Americans. This course will not count as one of the three required Social Studies courses for graduation.

SOCIOLOGY: CLEP Aligned

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Prerequisite: None

EPSO: Aligned to Sociology CLEP exam

SOCIOLOGY is the study of man in society and social groups rather than the individual. It is the study of behavior and social interaction. This course helps the student gain a new perspective for looking at themselves and the world around them. Sociology looks beyond commonly held beliefs to the hidden meanings behind human actions. Group work, class discussions, and projects are heavily emphasized.

PSYCHOLOGY: CLEP Aligned

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Prerequisite: None

EPSO: Aligned to Psychology CLEP exam

PSYCHOLOGY focuses on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphases will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders.

ADVANCED PLACEMENT PSYCHOLOGY

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Corequisite: Enrollment in Honors English is recommended but not required.

AP PSYCHOLOGY is an introductory college course in psychology. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. Students will pay for and take the College Board AP Psychology exam.

ECONOMICS

Credits 0.50 **Number of Semesters** 1 **Grade Level** 12

Prerequisite: None

ECONOMICS includes the fundamental principles of the American free enterprise system and the factors that influence its function. This course is designed so that students achieve a better understanding of how basic economic concepts affect decisions made by consumers, producers, and their government.

UNITED STATES GOVERNMENT AND CIVICS - CLEP Aligned

Credits 0.50 **Number of Semesters** 1 **Grade Level** 12

Prerequisite: None

EPSO: Aligned to US Government CLEP exam

analyze historical evidence and interpretation, and to express historical understanding in writing. Students will pay for and participate in the College Board AP testing program.

ADVANCED PLACEMENT HUMAN GEOGRAPHY

Credits 1.00 **Number of Semesters** 2 **Grade Level** 9-12

Prerequisite: Must be enrolled in at least one other honors course and teacher recommendation

AP HUMAN GEOGRAPHY introduces students to the systematic patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Students will pay for and participate in the College Board AP testing program.

FACING HISTORY AND OURSELVES

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Prerequisite: None

FACING HISTORY AND OURSELVES is an examination of mankind's methods to promote knowledge, values, and skills needed to preserve and protect democracy. The course explores issues of racism, anti-Semitism, and violence, as well as those of courage, caring, and compassion for all humanity. The course helps students to make connections between the past and the present. The course encourages students to think about their responsibility to participate in our democracy and to avoid the pitfalls of prejudice and discrimination. This course is reading and writing intensive and is heavily dependent on critical thinking.

CONTEMPORARY ISSUES

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Prerequisite: None

CONTEMPORARY ISSUES examines, using inquiry skills, the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

PERSONAL FINANCE

Credits 0.50 **Number of Semesters** 1 **Grade Level** 10-12

Prerequisite: None

PERSONAL FINANCE is a course designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will

include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

PERSONAL FINANCE HONORS

Credits 0.50

Number of Semesters 1

Grade Level 11-12

Prerequisite: None

PERSONAL FINANCE is a course designed to introduce you to the personal side of financial analysis and activity. You will be placed at the “center of your financial universe” and be exposed to the areas of financial planning and analysis which can help you increase your financial literacy and help you make more intelligent choices about your future financial situation. Topics covered include financial planning, financial budgets, taxes, managing basic assets, managing credit, managing insurance, managing investments, and planning for retirement and thereafter.

Wellness

LIFETIME WELLNESS

Credits 1.00

Number of Semesters 2

Grade Level 9

Prerequisite: None

LIFETIME WELLNESS content includes disease prevention and control, nutrition, substance use and abuse, mental/emotional/social health, sexuality and family life, safety and first aid, and personal fitness. Each content area is addressed in a classroom and/or physical activity setting. Personal fitness and nutrition are emphasized and integrated throughout the course. Students acquire knowledge and skills necessary to make informed decisions regarding their health and well being throughout their lifetime. It is recommended that you purchase a PE uniform for \$20 from the Wellness Department. If you choose not to, you must wear the same color shirt and shorts as our uniform.

LIFETIME SPORTS

Credits 0.50

Number of Semesters 1

Grade Level 11-12

Prerequisite: None

LIFETIME SPORTS is a course designed to help students develop an appreciation for lifetime sports and activities. The following sports will be presented: volleyball, badminton, soccer, basketball, fitness walking, and table tennis. This course will only be offered to juniors and seniors who have not yet met their 1/2 credit in PE required for graduation.

STRENGTH AND EXERCISE

Credits 0.50

Number of Semesters 1

Grade Level 11-12

Prerequisite: None

STRENGTH AND EXERCISE is a course for students regardless of their current level of fitness. The class is designed to educate and instruct students on how to exercise properly and maintain a healthy lifestyle. This class is ideal for anyone wanting to learn more about weight lifting or any other main form of exercise. Also, those wanting to pursue a career in the fitness industry will find this class beneficial and ideal to their career goals.

